

SEQUENCE LISTING

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LOEB, Lawrence A.

<120> METHOD FOR PRODUCING NOVEL DNA SEQUENCES WITH
BIOLOGICAL ACTIVITY

<130> 832425-001

<140> 09/132,231

<141> 1998-08-11

<150> US 08/316,415

<151> 1994-09-30

<160> 57

<170> PatentIn Ver. 2.0

<210> 1

<211> 17

<212> DNA

<213> Escherichia coli

<220>

<221> misc_difference

<222> (1)..(9)

<223> Nucleotide at position 9 is n wherein n = a, c, g,
or t.

<400> 1

ggagattcna tggatcc

17

<410> 1

<411> 17

<412> DNA

<413> Escherichia coli

<420>

<421> misc_feature

<422> (1)..(9)

<423> Nucleotide at position 9 is n wherein n = c, g, or
t.

<430> 2

cogaattcna tcgatcc

17

4210: 3

4211: 11

4212: DNA

4213: Escherichia coli

4400: 3

cgcggtagtt t

11

4210: 4

4211: 25

4212: DNA

4213: Escherichia coli

4400: 4

aatttttggg cgcgcgtcgg cttgat

26

4210: 5

4211: 24

4212: DNA

4213: Escherichia coli

4400: 5

cgatcaagcc gacgcgcgcc caag

24

4210: 6

4211: 20

4212: DNA

4213: Escherichia coli

4400: 6

tttctgggtg catactcttc

20

4210: 7

4211: 24

4212: DNA

4213: Escherichia coli

4400: 7

tttctgggtg agacctcata ctcttc

26

1
<210> 9
<211> 20
<212> DNA
<213> Escherichia coli

<220>
<221> misc_feature
<222> (1)..(11)
<223> Nucleotide at position 11 is n wherein n = a, c,
g, or t.

<400> 3
gggagatct nagatctggg 20

<210> 9
<211> 10
<212> DNA
<213> Escherichia coli

<400> 3
gggagatct 10

<210> 10
<211> 47
<212> DNA
<213> Escherichia coli

<220>
<221> misc_feature
<222> (16)..(38)
<223> Nucleotides 16 to 38 are n wherein n = unspecified
bases.

<400> 10
ggggcgagg aacgtnnnnn nnnnnnnnnn nnnnnnnnag tactgct 47

<210> 11
<211> 46
<212> DNA
<213> Escherichia coli

<220>
<221> misc_feature
<222> (18)..(26)
<223> Nucleotides 18 to 26 are n wherein n = unspecified

bases.

<220>

<221> misc_feature

<222> (30)..(35)

<223> Nucleotides 30 to 35 are n wherein n = unspecified
bases.

<400> 11

gjcggcagga acgtttttnnn nnnnnnagcn nnnnnaaagt actgct

46

<210> 12

<211> 47

<212> DNA

<213> Escherichia coli

<400> 12

gjcggcagagg aacgtttttcc cgtcatgagc atcatcaaag tactgct

47

<210> 13

<211> 57

<212> DNA

<213> Escherichia coli

<400> 13

caagaattct catgttttgac agcttatcat cgataagctt taatgcggta gtttata

57

<210> 14

<211> 57

<212> DNA

<213> Escherichia coli

<400> 14

gttcctaaga gtacaaactg tcgaatagta gctattcgaa attacgccat caaatag

57

<210> 15

<211> 19

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (1)..(15)

<223> Nucleotides 1 to 15 are n wherein n = unspecified

bases.

<400> 15
nnnnnnnnnnn nnnnnnnnn

19

<210> 16
<211> 40
<212> DNA
<213> Escherichia coli

<400> 16
ttctcatggtt tgacagctta tcatcgataa gctttaatgc

40

<210> 17
<211> 40
<212> DNA
<213> Escherichia coli

<400> 17
gtgcagaaac gccgcagggg aaagaactgc gccttgacat

40

<210> 18
<211> 16
<212> DNA
<213> Escherichia coli

<400> 18
ggagccgcgcg atacgt

16

<210> 19
<211> 19
<212> DNA
<213> Escherichia coli

<400> 19
taggcagggg gggcgacat

19

<210> 20
<211> 12
<212> DNA
<213> Escherichia coli

<400> 20

cccatgcaaa ta

12

<Q10> 21

<Q11> 10

<Q12> DNA

<Q13> Escherichia coli

<Q40> 21

ttccgggtcc

10

<Q10> 22

<Q11> 22

<Q12> DNA

<Q13> Escherichia coli

<Q40> 22

tcttggggc gcgtcggtt ga

22

<Q10> 13

<Q11> 18

<Q12> DNA

<Q13> Escherichia coli

<Q40> 13

gccccttttc tcccttga

18

<Q10> 14

<Q11> 23

<Q12> DNA

<Q13> Escherichia coli

<Q40> 14

cgtccctgcc ttgcgttgt tcc

23

<Q10> 25

<Q11> 15

<Q12> DNA

<Q13> Escherichia coli

<Q40> 25

gcgtgtcggc cccgtgtct ctcca

25

<210> 26
<211> 19
<212> DNA
<213> Escherichia coli

<400> 26
gtggcgccc gtgcctttc

19

<210> 27
<211> 19
<212> DNA
<213> Escherichia coli

<400> 27
atttcggttg cgggcgtgc

19

<210> 28
<211> 19
<212> DNA
<213> Escherichia coli

<400> 28
gggtggcgg ccgtgtcgg

19

<210> 29
<211> 19
<212> DNA
<213> Escherichia coli

<400> 29
gggggtctc ccggtcgtt

19

<210> 30
<211> 15
<212> DNA
<213> Escherichia coli

<400> 30
ggcggtggcg gccgc

15

<210> 31
<211> 19
<212> DNA

<213> Escherichia coli

<400> 31

gcccttgctt tggtaggtctt gctcgcccc

29

<210> 32

<211> 35

<212> DNA

<213> Escherichia coli

<400> 32

tattcggttg gccttcgggc gagagt

26

<210> 33

<211> 36

<212> DNA

<213> Escherichia coli

<400> 33

tatggtgtct ggcggcccg

19

<210> 34

<211> 37

<212> DNA

<213> Escherichia coli

<400> 34

tgggacggcg gctgggggtcc g

21

<210> 35

<211> 41

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> 10)..(32)

<223> Nucleotides 10 to 32 are n wherein n = unspecified
bases.

<400> 35

cgcggaggan nnnnnnnnnn nnnnnnnnnn nnagtactgc t

41

<210> 36
<211> 34
<212> DNA
<213> Escherichia coli

<220>
<221> misc_feature
<222> 9)..(31)
<223> Nucleotides 9 to 31 are n wherein n = unspecified
bases.

<400> 36
ccgaggaann nnnnnnnnnn nnnnnnnnnn nagt

34

<210> 37
<211> 30
<212> DNA
<213> Escherichia coli

<220>
<221> misc_feature
<222> 5)..(27)
<223> Nucleotides 5 to 27 are n wherein n = unspecified
bases.

<400> 37
ccttnnnnnn nnnnnnnnnn nnnnnntca

30

<210> 38
<211> 37
<212> DNA
<213> Escherichia coli

<220>
<221> misc_feature
<222> (15)..(32)
<223> Nucleotides 15 to 23 and 27 to 32 are n wherein n
= unspecified bases.

<400> 38
ccgacgaacg ttttnnnnnn nnnagcnnnn nnaaagt

37

<210> 39
<211> 35
<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (11)..(28)

<223> Nucleotides 11 to 19 and 23 to 28 are n wherein n
= unspecified bases.

<400> 39

ctctgcacaaa nnnnnnnnnt cgnnnnnnntt tca

33

<210> 40

<211> 27

<212> DNA

<213> Escherichia coli

<220>

<221> CDS

<222> (1)..(27)

<400> 40

agt ttt cca atg atg agc act ttc aaa

27

Arg Phe Pro Met Met Ser Thr Phe Lys

1

5

<210> 41

<211> 2

<212> PRT

<213> Escherichia coli

<400> 41

Arg Phe Pro Met Met Ser Thr Phe Lys

1

5

<210> 42

<211> 16

<212> DNA

<213> Escherichia coli

<220>

<221> CDS

<222> (1)..(24)

<400> 42

agt cat ttt ctg ggt gtc gtt cat ca

26

Arg His Phe Leu Gly Val Val His
1 5

<210> 43
<211> 3
<212> PRT
<213> Escherichia coli

<400> 43
Arg His Phe Leu Gly Val Val His
1 5

<210> 44
<211> 27
<212> DNA
<213> Escherichia coli

<220>
<221> CDS
<222> (1)..(27)

<400> 44
cgt ttt ccc gtc atg agc atc atc aaa
Arg Phe Pro Val Met Ser Ile Ile Lys
1 5

27

<210> 45
<211> 9
<212> PRT
<213> Escherichia coli

<400> 45
Arg Phe Pro Val Met Ser Ile Ile Lys
1 5

<210> 46
<211> 27
<212> DNA
<213> Escherichia coli

<220>
<221> CDS
<222> (1)..(27)

<400> 45

agt ttt ccg atg ctt agc aca ata aaa
Arg Phe Pro Met Leu Ser Thr Ile Lys
1 5

27

<210> 47

<211> 9

<212> PRT

<213> Escherichia coli

<400> 47

Arg Phe Pro Met Leu Ser Thr Ile Lys
1 5

<210> 47

<211> 17

<212> DNA

<213> Escherichia coli

<220>

<221> CDS

<222> (1)..(27)

<400> 48

agt ttt gcc ctc aat agc aca ttt aaa
Arg Phe Ala Leu Asn Ser Thr Phe Lys
1 5

27

<210> 48

<211> 9

<212> PRT

<213> Escherichia coli

<400> 48

Arg Phe Ala Leu Asn Ser Thr Phe Lys
1 5

<210> 50

<211> 27

<212> DNA

<213> Escherichia coli

<220>

<221> CDS

<222> (1)..(27)

<400> 50

agt ttt cct gtg tgt agc acg cat aaa
Arg Phe Pro Val Cys Ser Thr His Lys
1 5

27

<210> 51

<211> 9

<212> PPT

<213> Escherichia coli

<400> 51

Arg Phe Pro Val Cys Ser Thr His Lys
1 5

<210> 52

<211> 27

<212> DNA

<213> Escherichia coli

<220>

<221> CDS

<222> (1)..(27)

<400> 52

agt ttt cca caa ttg agc acc cac aaa
Arg Phe Pro Gln Leu Ser Thr His Lys
1 5

27

<210> 53

<211> 9

<212> PPT

<213> Escherichia coli

<400> 53

Arg Phe Pro Gln Leu Ser Thr His Lys
1 5

<210> 54

<211> 27

<212> DNA

<213> Escherichia coli

<220>

<221> CDS

<222> (1)..(27)

<400> 54

cgt ttt ccc ett tct agc cac cgt aaa

27

Arg Phe Pro Leu Ser Ser His Arg Lys

1

5

<210> 55

<211> 9

<212> PRT

<213> Escherichia coli

<400> 55

Arg Phe Pro Leu Ser Ser His Arg Lys

1

5

<210> 56

<211> 27

<212> DNA

<213> Escherichia coli

<220>

<221> CDS

<222> (1)..(27)

<400> 56

cgt ttt ccc ata cta agc cca tct aaa

27

Arg Phe Pro Ile Leu Ser Pro Ser Lys

1

5

<210> 57

<211> 9

<212> PRT

<213> Escherichia coli

<400> 57

Arg Phe Pro Ile Leu Ser Pro Ser Lys

1

5